

APPROVED BY	O.G. FIG.	
DRAFTSMAN	CLASS	SUBCLASS

5' GTG AAG TGG TGA AAG AAG GGG TGG GAA CGA CGC TGG ACT TCT GGA CTT TGG GCA GGG
 9 18 27 36 45 54
 CAG ATC CTC TGA CTC TCT GGC TGC AGA ACA GTC TCT TCC GTG CTC TGG CCT GAG
 63 72 81 90 99 108
 TGC CCA CAG GCC AGG GGC CTC TGC TCT GTA CAC AGA CCG GGC AAG GTC CCC CAG
 117 126 135 144 153 162
 GCC AGG ATG TCA GGC CTG GTG TTG GGG CAG CGG GAT GAG CCT GCA GGC CAC CGG
 M S G L V L G Q R D E P A G H R
 171 180 189 198 207 216
 CTC AGC CAA GAG GAG ATC CTG GGG AGC ACA CGG CTG GTC AGC CAA GGG CTA GAG
 L S Q E E I L G S T R L V S Q G L E
 225 234 243 252 261 270
 GCC CTA CGC AGT GAA CAC CAG GCC GTG CTG CAA AGC CTG TCC CAG ACC ATT GAG
 A L R S E H Q A V L Q S L S Q T I E
 279 288 297 306 315 324
 TGT CTG CAG CAG GGA GGC CAT GAG GAA GGG CTG GTG CAT GAG AAG GCC CGG CAG
 C L Q Q G G H E E G L V H E K A R Q
 333 342 351 360 369 378
 CTT CGC CGT TCT ATG GAA AAC ATT GAG CTC GGG CTG AGT GAG GCC CAG GTG ATG
 L R S M E N I E L G L S E A Q V M

FIGURE 1A

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DRAFTSMAN	CLASS	SUBCLASS

FIGURE 1B

441	450	459	468	477	486
CTG GCT CTA GCC AGC CAC	CTG AGC ACA GTG GAG TCG GAG AAA CAG AAG	CTG CGG			
L A L A S H L S T V E S	E N Q W L R D E L R	K Q K L R			
495	504	513	522	531	540
GCT CAG GTG CGG CGG CTA TGC CAG GAG AAC CAG TGG CTG CGG GAT GAG CTG GCT					
A Q V R R L C Q E N Q W L R D E L A					
549	558	567	576	585	594
GGC ACC CAG CAG CGG CTA CAG CGC AGT GAA CAG GCT GTG GCT CAG CTG GAG GAG					
G T Q Q R L Q R S E Q A V A Q L E E					
603	612	621	630	639	648
GAA AAG AAC CAC CTG GAG TTC CTG GGG CAG CTG CGG CAG TAT GAT GAG GAT GGA					
E K K H L E F L G Q L R Q Y D E D G					
657	666	675	684	693	702
CAT ACC TCG GAG GAG AAA GAA GGC GAT GCC ACC AAG GAT TCC CTG GAT GAC CTC					
H T S E E K E G D A T K D S L D D L					
711	720	729	738	747	756
TTT CCT AAT GAG GAG GAA GAG GAC CCC AGC AAT GGC TTG TCC CGT GGT CAA GGT					
F P N E E E D P S N G L S R G Q G					
765	774	783	792	801	810
GCT ACA GCA GCT CAG CAG GGT GGA TAT GAG ATC CCA GCA AGG TTG CGG ACG TTG					
A T A A Q Q G G Y E I P A R L R T L					

FIGURE 1B

APPROVED BY DRAFTSMAN	O.G. FIG. CLASS SUBCLASS
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BENZODIURETHANE 060

819	828	837	846	855	864
CAC AAC CTG GTG ATC CAG TAC GCA GCC CAA GGT CGC TAT GAG GTG GCC	Q Y A A Q G R Y E V A V	P			
H N L V I Q Y A A Q G R Y E V A V					
873	882	891	900	909	918
CTC TGT AAG CAG GCA CTA GAG GAC CTG GAG CGC ACA TCA GGC CGT GGC CAC CCT	D L E R T S G R G H P				
L C K Q A L E D L E R T S G R G H P					
927	936	945	954	963	972
GAT GTC GCC ACC ATG CTC AAC ATC CTT GCT TTG GTG TAT CGT GAC CAG AAT AAG	V A T M L N I L A L V Y R D Q N K				
D V A T M L N I L A L V Y R D Q N K					
981	990	999	1008	1017	1026
TAT AAG GAA GCT GCC CAC CTG CTG AAT GAT GCC CTT AGC ATC CGG GAG AGC ACC	Y K E A H L L N D A L S I R E S T				
Y K E A H L L N D A L S I R E S T					
1035	1044	1053	1062	1071	1080
TTG GGA CCT GAC CAT CCT GCT GTC GCT GCC ACA CCTT AAC AAT TTG GCT GTG CTC	L G P D H P A V A T L N N L A V L				
L G P D H P A V A T L N N L A V L					
1089	1098	1107	1116	1125	1134
TAT GGC AAA AGG GGC AAG TAC AAG GAG GCA GAG CCT CTG TGC CAG CGG GCA CTG	Y G K R G K Y K E A E P L C Q R A L				
Y G K R G K Y K E A E P L C Q R A L					
1143	1152	1161	1170	1179	1188
GAG ATT CGA GAA AAG GTC CTG GGC ACG AAT CAT CCA GAT GTG GCA AAA CAG CTG	E I R E K V L G T N H P D V A K Q L				
E I R E K V L G T N H P D V A K Q L					

FIGURE 1C

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DRAFTSMAN	CLASS SUBCLASS

FIGURE 1D

1197	AAC AAC	CTG GCC	CTC TTG	TGC CAA	AAC CAG GGC AAG TAT	GAG GCC GTG GAA CGC	1233	1242
N N	L A	L L	C Q	N Q	G K	Y E A V	E R	
Y Y	Q R	A L	A I	Y E	G Q	L G P D	N P	
1305	AAT GTA	GCC CGG	ACC AAC	AAC CTG	GCT TCC TGT TAC	CTG AAA CAG GGC AAA		
N V	A R	T K	N N	L A	S C Y L	K Q G	K	
1359	TAT GCT	GAG GCT	GAG ACA	CTA TAC	AAA GAG ATC CTG	ACC CGT GCC CAT GTA CAG	1395	1404
Y A	E A	E T	L Y	K E	I L T R	A H V Q		
1413	GAG TTT	GGG TCT	GTG GAT	GAC CAC	AAG CCC ATC TGG	ATG CAT GCA GAG GAG	1449	1458
E F	G S	V D	D D	H K	P I W M	H A E E		
1467	CGG GAG	GAA ATG	AGC AAA	AGC CGG	CAC CAT GAG GGT	GGG ACA CCC TAT GCT GAG	1503	1512
R E	E M	S K	S R	H H	E G T G	P Y A E		
1521	TAT GGA	GGC TGG	TAC AAG	GCC TGC	AAA GTG AGC AGC CCC ACA GTG AAC ACT ACT		1557	1566
Y G	G W	Y K	A C	K V	S S P T	V N T T		

FIGURE 1D

APPROVED BY	O.G. FIG.
DRAFTSMAN	CLASS SUBCLASS

1575	1584	1593	1602	1611	1620
CTG AGA AAC	CTG GGA GCT	CTG TAT AGG	CGC CAG GGA	AAG CTG GAG	GCT GAG
L R N L	G A L Y R	R Q G	K L E	A A	E
1629	1638	1647	1656	1665	1674
ACC CTG GAG GAA TGT GCC	CTG CGG TCC CGG AGA CAG	GGC ACT GAC	CCT ATC AGC		
T L E E C A	L R S R Q G	T D P I	S		
1683	1692	1701	1710	1719	1728
CAG ACG AAG GTG GCA GAG	CTG CTT GGG GAG	AGT GAT GGT AGA AGG	ACC TCC CAG		
Q T K V A E	L L G E S D	G R R T	S Q		
1737	1746	1755	1764	1773	1782
GAG GGC CCT GGA GAC ACT	GTG AAA TTC GAG GGT GAA GAT	GCT TCT GTG GCT			
E G P G D S V	K F E G G	E D A S V	A		
1791	1800	1809	1818	1827	1836
GTG GAG TGG TCC GGG GAT	GGC AGT GGG ACC CTG CAG AGT GGC TCT CTT GGC				
V E W S G D G	T G S G T L Q R	S G S L R			
1845	1854	1863	1872	1881	1890
AAG ATC CGG GAT GTG CTC CGC AGA AGC AGT GAA CTC TTG GTG AGG AAG CTC CAG					
K I R D V L R S S E L L V R K L Q					
1899	1908	1917	1926	1935	1944
GGG ACT GAG CCT CGG CCC TCC AGC AGC AAC ATG AAG CGA GCA GCC TCC TTG AAC					
G T E P R P S S N M K R A A S L N					

FIGURE 1E

图 1F. 从引物到扩增子的扩增子序列

1953	TAT	CTG	AAC	CAA	CCT	AGT	GCA	GCA	CCC	CTC	CAG	GTC	TCC	CGG	GGC	CTC	AGT	GCC
Y	L	N	Q	P	S	A	A	P	L	Q	V	S	R	G	L	S	A	
2007	AGC	ACC	ATG	GAC	CTC	TCT	TCA	AGC	AGC	TGA	CAT	TCA	ACC	CGG	CCC	CCA	GGT	CTG
S	T	M	D	L	S	S	S	S	S									
2061	CTG	GGT	CCC	CCC	ACC	CCC	ACA	GCC	CTC	ACA	GCA	TTC	CCC	ATT	GCT	CCT	GGC	TCT
2115	TCC	CCA	CCC	CTA	GGT	GGG	ACA	GTG	AAG	GGG	AGC	AGT	TTA	ACC	AGA	AGA	TTG	CTG
2169	CTG	CCC	TTA	GGG	TCT	CAG	CTC	CCT	CCT	CAG	GAA	TCC	CTC	TTA	GGA	AGG	ACC	CTC
2223	AGG	ACA	CCC	TCT	CTG	CAC	CCT	GTG	GTC	CTC	TAG	AGT	AGC	TAG	CTC	TGA	GGC	CCC
2277	AAG	GTG	GGT	ACA	AAG	CAG	GTA	TGG	CCC	TCA	GAG	ATG	CAG	CCT	GCT	GCT	GGC	TTT
2331	TCA	GTC	AGA	GGG	TTG	GGG	GCT	GGG	CAG	CCA	AGC	TGC	CTT	GCC	CTG	GCC	GCT	CTT
2385	ACT	CCC	TCC	CTC	TGC	TGT	CTC	ACT	TCA	GGT	CCA	TGT	ATT	TCA	CTT	TTC	TTA	AAT

FIGURE 1F

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

2439 2448
AAA AGA ATC AGT NCT TNT NTN NG 3'

FIGURE 1G

APPROVED BY	O.G. FIG.
DRAFTSMAN	CLASS SUBCLASS

1 M S G L V L G Q R D E P A G H R L S Q E E I L G S T R L V S 2479739
 1 M S T M V Y I K E D K L - - E K L T Q D E I T S K T K Q V I GI 307085

31 Q G L E A L R S E H Q A V L Q S L S Q T I E C L Q Q G G H E 2479739
 29 Q G L E A L K N E H N S T L Q S L L E T L K C L K K D D - E GI 307085

61 E G L V H E K A R Q L R S M E N I E L G L S E A Q V M L A 2479739
 58 S N L V E E K S N M T R K S L E M L E L G L S E A Q V M M A GI 307085

91 L A S H L S T V E S E K Q K L R A Q V R R L C Q E N Q W L R 2479739
 88 L S N H L N A V E S E K Q K L R A Q V R R L C Q E N Q W L R GI 307085

121 D E L A G T Q Q R L Q R S E Q A V A Q L E E E K K H L E F L 2479739
 118 D E L A N T Q Q K L Q S E Q S V A Q L E E E K K H L E F M GI 307085

151 G Q L R Q Y D E D G H T S E E K E G D A T K D S L D D L F P 2479739
 148 N Q L K K Y D D I S P S E D K D T D S T K E P L D D L F P GI 307085

181 N E E E E D P S N G L S R G Q G - - A T A A Q Q G G Y E I P 2479739
 178 N D E D - D P G Q G I Q Q H S S A A A A Q Q G G Y E I P GI 307085

FIGURE 2A

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DRAFTSMAN	CLASS SUBCLASS

209	A R I R T L H N L V I Q Y A A Q G R Y E V A V P L C K Q A L	2479739
207	A R I R T L H N L V I Q Y A S Q G R Y E V A V P L C K Q A L	GI 307085
239	E D L E R T S G R G H P D V A T M L N I L A L V Y R D Q N K	2479739
237	E D L E K T S G H D H P D V A T M L N I L A L V Y R D Q N K	GI 307085
269	Y K E A A H L L N D A L S I R E S T I G P D H P A V A A T L	2479739
267	Y K D A A N L L N D A L A I R E K T L G K D H P A V A A T L	GI 307085
299	N N L A V L Y G K R G K Y K E A E P L C O R A L E I R E K V	2479739
297	N N L A V L Y G K R G K Y K E A E P L C K R A L E I R E K V	GI 307085
329	L G T N H P D V A K Q I N N L A L L C Q N Q G K Y E A V E R	2479739
327	L G K D H P D V A K Q I N N L A L L C Q N Q G K Y E E V E Y	GI 307085
359	Y Y Q R A L A I Y E G Q L G P D N P N V A R T K N N L A S C	2479739
357	Y Y Q R A L E I Y Q T K L G P D D P N V A K T K N N L A S C	GI 307085
389	Y L K Q G K Y A E A E T L Y K E I L T R A H V Q E F G S V D	2479739
387	Y L K Q G K F K Q A E T L Y K E I L T R A H E R E F G S V D	GI 307085

FIGURE 2B

APPROVED BY	O.G. FIG.	
DRAFTSMAN	CLASS	SUBCLASS

419 D D H K P I W M H A E E R E E M S K S R H H E G G T P Y A E 2479739
 417 D E N K P I W M H A E E R E E - C K G K Q K D G - T S F G E GI 307085

449 Y G G W Y K A C K V S S P T V N T T L R N L G A L Y R R Q G 2479739
 445 Y G G W Y K A C K V D S P T V T T L K N L G A L Y R R Q G GI 307085

479 K L E A A E T L E E C A L R S R R Q G T D P I S Q T K V A E 2479739
 475 K F E A A E T L E E A A M R S R K Q G L D N V H K Q R V A E GI 307085

509 L L G E S D G - - - R R T S Q E G P G D S V K F E - - - G 2479739
 505 V L N D P E N M E K R R S R E S L N V D V V K Y E S G P D G GI 307085

532 G E D A S V A V E W S G D G S G T L Q R S G S L G K I R D V 2479739
 535 G E E V S M S V E W N G G V S G - - - R A S F C G K R Q Q - GI 307085

562 L R R S S E L L V R K L Q G T E P R P S S S N M K R A A S L 2479739
 561 - - - - - - - - - - - - - Q Q W P G R R H R GI 307085

592 N Y L N Q P S A A P L Q V S R G L S A S T M D L S S S S 2479739
 569 GI 307085

FIGURE 2C